

## **QA4EO Daily Report for IOP data:**

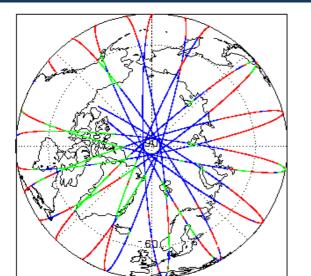
<u>19/04/2023</u>

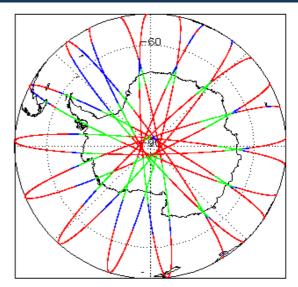
## IDEAS-QA4E0

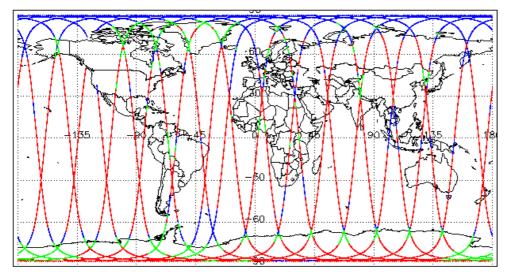
		Check	L1 & L2	P2P
Report Production:	24-Apr-2023	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Due en en la este	On an Orat One on Discourse	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
		Product Header Analysis	See Sections 4.2 and 5.2	See Section 6.2
		Auxiliary Data File Usage Check	See Section 4.3 and 5.3	See Section 6.3
We would	love to hear from you!	Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
	your feedback about these daily	Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
quality reports: What do you like/ dislike? What quality		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
information do you	need? Send your feedback to	Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
cs2_qc_t	eam@telespazio.com	QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1 and 7.2

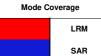
	Mission / Instrument News		
	18-Apr-2023	None	
19-Apr-2023 20-Apr-2023		None	
		Nothing planned	

# 2. Global Coverage









SARin

# 3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

The SIRAL instrument configuration for the day of acquisition is provided below.

## 4. IOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).

4.2 L1B Product Header Anal	lysis
For all products, a series of pre-defined che	acks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
Number of products with errors:	Not 0!
4.3 L1B Auxilary Data File Us	age Check
Each product is checked for missing Data S	Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.
Number of products with errors:	0
4.4 L1B Auxiliary Correction	Error Check
CryoSat L1B data includes a correction error	or flag for each measurement record. The bit value of this flag indicates any problems when set.
Number of products with errors:	0
4.5 L1B Measurement Confid	ence Data Check
CryoSat L1B data includes a measurement	confidence flag for each measurement record. The bit value of this flag indicates any problems when set.
> Attitude Correction Missing: This flag is update.	s currently set in error for IOPR products due to a configuration issue. The attitude correction is actually not missing. This will be resolved in the next SW
Number of products with errors:	0
4.6 L1B Waveform Group Da	ta Check
CryoSat L1B data includes a waveform data	a flag for each measurement record. The bit value of this flag indicates any problems when set.
Loss of Echo Flag: This flag is currently se	et for products over land, but this is to be expected. The table provides the full list of products flagged.
Number of products with errors:	15

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20230419T005632_20230419T011208_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20230419T142914_20230419T144040_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20230419T201655_20230419T202440_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230419T000137_20230419T000531_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230419T031952_20230419T032209_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230419T045919_20230419T050403_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230419T082259_20230419T082427_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230419T130526_20230419T130947_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230419T131047_20230419T131156_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230419T144624_20230419T144952_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230419T144952_20230419T145054_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230419T231543_20230419T231606_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230419T045510_20230419T045918_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230419T062935_20230419T063959_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230419T071950_20230419T072157_C001	Loss of Echo	The tracking echo is missing for one or more records

## 5. IOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc). 0 Number of products with errors:

#### 5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: Not 0!

#### 5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. 0

#### Number of products with errors:

#### 5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.

> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.

> Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.

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> Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.

> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20230419T045030_20230419T045110_C001	IMean Dynamic Lopography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records

DisplayName Synthesis Tapports (1)Name Synthesis Tapports (1)Name Synthesis Tapports (1)Name Synthesis Tapports (1)DisplayDisplay Synthesis (Display Synthesis (Di	CS_OFFL_SIR_IOPM_2_20230419T045110_20230419T045112_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
LCUTCLICUTCLICATION CLUCATION CLUCATION CLUCATIONMeth State	CS_OFFL_SIR_IOPM_2_20230419T080112_20230419T080204_C001	Mean Dynamic Topography (1)	
Mar. Mon. Solution. Control entrol description of the Control Feedback (Control Feedback (Contro Feedback (Control Feedback (Control Feedback (Control Feedback (	CS_OFFL_SIR_IOPM_2_20230419T200134_20230419T200223_C001	Mean Dynamic Topography (1)	
Construction         Transpary (1)         Transpary (1)         Transpary (1)         Transpary (1)           C5         OFL_DRI_ONL_2_X22301010148_XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	CS_OFFL_SIR_IOPN_2_20230419T000137_20230419T000531_C001		
Number Care Care Care Care Care Care Care Ca	CS_OFFL_SIR_IOPN_2_20230419T004514_20230419T004748_C001		
Vis. Units. 2 Jack Information (Jack Process)         Toxy split (Jack Process)         Toxy split (Jack Process)           16         OFR_ SR, CAN 2 Jack Informatic Jack Jack Process (Jack Process)         Toxy split (Jack Process)         Toxy split (Jack Process)           16         OFR_ SR, CAN 2 Jack Informatic Jack Jack Process (Jack Process)         Toxy split (Jack Process)         Toxy split (Jack Process)           17         OFR_ SR, CAN 2 Jack Informatic Jack Jack Process (Jack Process)         Toxy split (Jack Process)         Toxy split (Jack Process)           18         OFR_ SR, CAN 2 Jack Process (Jack Process)         Toxy split (Jack Process)         Toxy split (Jack Process)           19         OFR_ SR, CAN 2 Jack Process (Jack Process)         Toxy split (Jack Process)         Toxy split (Jack Process)           19         OFR_ SR, CAN 2 Jack Process (Jack Process)         Toxy split (Jack Process)         Toxy split (Jack Process)           19         OFR_ SR, CAN 2 Jack Process (Jack Process)         Toxy split (Jack Process)         Toxy split (Jack Process)           19         OFR_ SR, CAN 2 Jack Process (Jack Process)         Toxy split (Jack Process)         Toxy split (Jack Process)           19         OFR_ SR, CAN 2 Jack Process (Jack Process)         Toxy split (Jack Process)         Toxy split (Jack Process)           19         OFR_ SR, CAN 2 Jack Process (Jack Process)         Toxy split (Jack Process)         Toxy	CS_OFFL_SIR_IOPN_2_20230419T014345_20230419T014627_C001	Total Geocentric Ocean Tide (GOT)	
Description         Description         Description         Description           CS, CPFL, SRI, DPFL, 2. 20204197104034, 20204197104047, 2001         March SS, March 11, March Damit         There is an envel the MSD bright (outdoor 1) and the MSD hraph (outdoor 1) and th	CS_OFFL_SIR_IOPN_2_20230419T022014_20230419T022620_C001		
Control         Encoder by the set of the test	CS_OFFL_SIR_IOPN_2_20230419T031952_20230419T032209_C001		
CPFL_SH_CPL_2003H41104801_2000H110480_2000         Transport (I)         Transport (I)           GS_OFFL_SH_OPL_2.003H41104800_2000         Max Sos School (I) Man Dynamic         There is a error with the MSD height (solution I)           GS_OFFL_SH_OPL_2.003H41104800_2000         Max Sos School (I) Man Dynamic         There is a error with the MSD height (solution I)           GS_OFFL_SH_OPL_2.003H411048020_2000H11048027_C001         Max Sos School (I) Man Dynamic         There is a error with the MSD height (solution I)           GS_OFFL_SH_OPL_2.003H411048120_2000H         Max Sos School (I) Max Dynamic         There is a error with the MSD height (solution I)           GS_OFFL_SH_OPL_2.003H411048120_2000H         Max Dynamic Transport/(I)         There is a error with the MSD height (solution I)           GS_OFFL_SH_OPL_2.003H4111048120_2000H111024_C00H         Max Dynamic Transport/(I)         There is a error with the MSD height (solution I)           GS_OFFL_SH_OPL_2.003H411104812_0020H111024_C00H         Max Dynamic Transport/(I)         There is a error with the MSD height (solution I)           GS_OFFL_SH_OPL_2.003H411104812_0020H111024_C00H         Max Dynamic Transport/(I)         There is a error with the MSD height (solution I)           GS_OFFL_SH_OPL_2.003H411104812_0020H1111024_C00H         Max Dynamic Transport/(I)         There is a error with the MSD height (solution I)           GS_OFFL_SH_OPL_2.003H411114812_0020H1111024_C00H         Max Sos Schrool II, Max Dynamic         There is a error with the MSD height (solutio	CS_OFFL_SIR_IOPN_2_20230419T040234_20230419T040417_C001		
Circle Structure         Transpraying (1)         Transpraying (1)         Transpraying (1)           Circle Structure         Approximation of the structure (1) Mean Dyname         Transpraying (1)         Transpraying (1)           Circle Structure         Approximation of the structure (1) Mean Dyname         Transpraying (1)         Transpraying (1)           Circle Structure         Approximation of the structure (1) Mean Dyname         Transpraying (1)         Transpray in (2)           Circle Structure         Approximation of the structure (1) Mean Dyname         Transpray in (2)         Transpray in (2)           Circle Structure         Approximation of the structure (1) Mean Dyname         Transpray in (2)         Transpray in (2)           Circle Structure         Approximation of the Mean Dyname         Transpray in (2)         Transpray in (2)           Circle Structure         Approximation of the Mean Dyname         Transpray in (2)         Transpray in (2)           Circle Structure         Approximation of the Mean Dyname         Transpray in (2)         Transpray in (2)           Circle Structure         Approximation of the Mean Dyname         Transpray in (2)         Transpray in (2)           Circle Structure         Approximation of the Mean Dyname         Transpray in (2)         Transpray in (2)           Circle Structure         Transpray in (2)         Transpray in (2) <td>CS_OFFL_SIR_IOPN_2_20230419T045919_20230419T050403_C001</td> <td></td> <td></td>	CS_OFFL_SIR_IOPN_2_20230419T045919_20230419T050403_C001		
Def PFL_SBL_OPFL_2.802041910102580_00001       Toospapely (1)       Toospapely (1)       Toospapely (1)         C9_OFFL_SBL_OPFL_2.8020419108258_022019106258_022019106258_02201       Mean Dynamic Toospapely (1)       There is an error with the Main Dynamic Topography height (solution 1)         C9_OFFL_SBL_OPFL_2.80204191091052_022019106258_0220191065506_0201       Mean Dynamic Topography (1)       There is an error with the Main Dynamic Topography height (solution 1)         C9_OFFL_SIR_UOPFL_2.80204191090526_0220201910165506_0201       Mean Ses Surface (1)       There is an error with the Main Dynamic Topography height (solution 1)         C9_OFFL_SIR_UOPFL_2.80204191010032_02001910105506_0101       Mean Ses Surface (1), Mean Dynamic Topography field)       There is an error with the Main Dynamic Topography height (solution 1) and the Main Dynamic Topography field)         C9_OFFL_SIR_UOPFL_2.80204191112822_00204191112824_0001       Mean Ses Surface (1), Mean Dynamic Topography field)       There is an error with the MSD height (solution 1) and the Main Dynamic Topography field)         C9_OFFL_SIR_UOPFL_2.80204191112822_00204191112824_0001       Mean Ses Surface (1), Mean Dynamic Topography field)       There is an error with the MSD height (solution 1) and the Mean Dynamic Topography field)         C9_OFFL_SIR_UOPL_2.80204191112824_00201       Mean Ses Surface (1), Mean Dynamic Topography field)       There is an error with the MSD height (solution 1) and the Mean Dynamic Topography field)         C9_OFFL_SIR_UOPL_2.80204191113142_0020149111304_00201       Mean Ses Surface (1), Mean Dynamic Topography field)	CS_OFFL_SIR_IOPN_2_20230419T055053_20230419T055334_C001		
Control         Control         Control         Control           CS_CPR_SIR_JOPN_2_0020+19706112_0021         Mass Ses Surface (1). Mass Dynamic Topography height (colution 1) and the Mass Dynamic Topography height (colution 1).         There is an arrow with the MSS height (colution 1).           CS_CPR_SIR_JOPN_2_0020419706102_0020419706102_0001         Mass Ses Surface (1).         There is an arrow with the MSS height (colution 1).           CS_CPR_SIR_JOPN_2_0020419706020_00201         Mass Ses Surface (1).         There is an arrow with the MSS height (colution 1).           CS_CPR_SIR_JOPN_2_0020419706020_0020419706000_0001         Mass Ses Surface (1).         There is an arrow with the MSS height (colution 1).           CS_CPR_SIR_JOPN_2_00204197106000_0001         Mass Ses Surface (1).         There is an arrow with the MSS height (colution 1).           CS_CPR_SIR_JOPN_2_00204197110600_00000         Data Ses Surface (1).         There is an arrow with the MSS height (colution 1).           CS_CPR_SIR_JOPN_2_00204197111000_000000000000000000000000000000	CS_OFFL_SIR_IOPN_2_20230419T072157_20230419T072546_C001		
CS_OFFL_SIR_IOPN_2_20230419T00103_C_002011       Trapography (g)       Trapography (g)       Trapography (g)         CS_OFFL_SIR_IOPN_2_20230419T00123_C001       Mean Dynamic Topography (g)       Trave is an encr with the Man Dynamic Topography (g)         CS_OFFL_SIR_IOPN_2_20230419T00123_C0230_02001       Mean Sea Surface (1)       There is an encr with the MSS height (goldion 1) on one or more records         CS_OFFL_SIR_IOPN_2_20230419T10412_20230419T105025_C001       Mean Sea Surface (1)       There is an encr with the MSS height (goldion 1) and the Mean Dynamic Topography (g)         CS_OFFL_SIR_IOPN_2_20230419T113022_20230419T113024_C001       Mean Sea Surface (1) Mean Dynamic Topography (g)       There is an encr with the MSS height (goldion 1) and the Mean Dynamic Topography (g)         CS_OFFL_SIR_IOPN_2_20230419T113124_20230419T113124_C001       Mean Sea Surface (1) Mean Dynamic Topography (g)       There is an encr with the MSS height (goldion 1) and the Mean Dynamic Topography (g)         CS_OFFL_SIR_IOPN_2_20230419T113124_20230419T113124_C001       Mean Sea Surface (1) Mean Dynamic Topography (g) (g)       There is an encr with the MSS height (goldion 1) and the Mean Dynamic Topography (g)         CS_OFFL_SIR_IOPN_2_20230419T104042_20230419T104722_C001       Mean Sea Surface (1) Mean Dynamic Topography (g)       There is an encr with the MSS height (goldion 1) and the Mean Dynamic Topography (g) (goldion 1) and the Mean Dynamic Topography (g) (goldion 1) and the Mean Dynamic Topography (g) (goldion 1)         CS_OFFL_SIR_IOPN_2_20230419T102450_C001       Mean Sea Surface (1) Mean Dynamic Topography (g) (	CS_OFFL_SIR_IOPN_2_20230419T082259_20230419T082427_C001	Mean Dynamic Topography (1)	
Correct_and_one_accession       Mean England       The initiant (applicable) (i)       There is an error with the MSS height (soution 1) for one or more records         CS_OFFL_SIR_IOPN_2_20230419T109238_20230419T109238_20230419T109238_20230419T109285_0001       Mean Ses Surface (1), Mean Dynamic Topography (i), Total Caleboards       There is an error with the MSS height (soution 1) and the Mean Dynamic Topography (i), Total Caleboards       There is an error with the MSS height (soution 1) and the Mean Dynamic Topography (i), Total Caleboards       There is an error with the MSS height (soution 1) and the Mean Dynamic Topography (i), Total Caleboards         CS_OFFL_SIR_IOPN_2_20230419T112822_20230419T113054_2001       Mean Ses Surface (1), Mean Dynamic Topography (i), Total Caleboards       There is an error with the MSS height (soution 1) and the Mean Dynamic Topography (i), Total Caleboards       There is an error with the MSS height (soution 1) and the Mean Dynamic Topography (i), Total Caleboards         CS_OFFL_SIR_IOPN_2_20230419T113104_20230419T113105_0001       Mean Ses Surface (1), Mean Dynamic Topography (i), Total Caleboards       There is an error with the MSS height (soution 1) and the Mean Dynamic Topography (i), Total Caleboards         CS_OFFL_SIR_IOPN_2_20230419T144942_20230419T144952_0001       Mean Ses Surface (1), Mean Dynamic Topography height (soution 1) and the Mean Dynamic Topography (i), Total is an error with the MSS height (soution 1) and the Mean Dynamic Topography height (soution 1)	CS_OFFL_SIR_IOPN_2_20230419T090138_20230419T090452_C001		
ORE_OFFL_SIR_LOPN_2_20230419110912_20230419110802_0001         Near Ses Surface (1). Mean Dynamic Topography Height (solution 1) and the Mean Dynamic Topography Height (solution 1).           GS_OFFL_SIR_LOPN_2_202304191112822_202304191113054_0001         Mean Dynamic Topography (1) That Gald Generation Construction Team Structure (Construction Team Structure (Construction Team Structure (Constructure (Const	CS_OFFL_SIR_IOPN_2_20230419T091005_20230419T091123_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_LOPN_2_20230419T128025_20230419T128025_0001       Topography (1)       Topography (2)         GS_OFFL_SIR_LOPN_2_20230419T12822_20230419T12824_20230419T11304_2001       Mean Dynamic Topography (2)       Topography (2)         CS_OFFL_SIR_LOPN_2_20230419T113124_20230419T113047_20001       Mean Sea Surface (1), Mean Dynamic Topography (2)       Topography (2)         CS_OFFL_SIR_LOPN_2_20230419T113124_20230419T113147_20001       Mean Sea Surface (1), Mean Dynamic Topography (2)       Topography (2)       Topography (2)         CS_OFFL_SIR_LOPN_2_20230419T1131047_20230419T140722_C001       Mean Sea Surface (1), Mean Dynamic Topography (2)       Topography	CS_OFFL_SIR_IOPN_2_20230419T095236_20230419T095306_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
GS_OFFL_SIR_IOPN_2_20230419T11324_20230419T11324_0001       Geocentric Ocean Tais (ED) test in the Name Dynamic Topography Institution Long Period Ocean Tais (ED) test in the Name Dynamic Topography Institution Long Period Ocean Tais (ED) test in the Name Dynamic Topography Institution Long Period Ocean Tais (ED) test in the Name Dynamic Topography Institution Long Period Ocean Tais (ED) test in the Name Dynamic Topography Institution Long Period Ocean Tais (ED) test in the Name Dynamic Topography Institution Long Period Ocean Tais (ED) test in the Name Dynamic Topography Institution Long Period Ocean Tais (ED) test in the Name Dynamic Topography Institution Long Period Ocean Tais (ED) test in the Name Dynamic Topography Institution Long Period Ocean Tais (ED) test in the Name Dynamic Topography Institution Long Period Ocean Tais (ED) test in the Name Dynamic Topography Institution Long Period Ocean Tais (ED) test in the Name Dynamic Topography Institution Long Period Decent Tais (ED) test in the Name Dynamic Topography Institution Long Period Decent Tais (ED) test in the Name Dynamic Topography Institution Long Period Decent Tais (ED) test in the Name Dynamic Topography Institution Long Period Decent Tais (ED) test in the Name Dynamic Topography Institution Long Period Decent Tais (ED) test is an error with the MSS height (solution 1) and the Mean Dynamic Topography Institution Long Period Decent Tais (ED) test is an error with the MSS height (solution 1) and the Mean Dynamic Topography Institution Long Period Decent Tais (ED) test is an error with the MSS height (solution 1) and the Mean Dynamic Topography Institution Long Period Decent Tais (ED) test is an error with the MSS height (solution 1) and the Mean Dynamic Topography Institution Long Period Decent Tais (ED) test is an error with the MSS height (solution 1) and the Mean Dynamic Topography Institution Long Period Decent Tais (ED) test is an error with the MSS height (solution 1) and the Mean Dynamic Topography I	CS_OFFL_SIR_IOPN_2_20230419T104912_20230419T105025_C001		
SS_OFFL_SIR_IOPN_2_20230419T13142_02030419T13156_0001       Topography (1)       Topography height (solution 1)         GS_OFFL_SIR_IOPN_2_20230419T14044_0_20230419T140722_0001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1)         GS_OFFL_SIR_IOPN_2_20230419T140440_20230419T140722_0001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1)         GS_OFFL_SIR_IOPN_2_20230419T140440_20230419T140722_0001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1) and the Mean Dynamic         GS_OFFL_SIR_IOPN_2_20230419T14040_20230419T145730_0001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1) and the Mean Dynamic         GS_OFFL_SIR_IOPN_2_20230419T165425_0230419T162916_0001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1) and the Mean Dynamic         GS_OFFL_SIR_IOPN_2_20230419T16255_0230419T16256_0001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1)         GS_OFFL_SIR_IOPN_2_20230419T16256_0230419T16256_0001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         GS_OFFL_SIR_IOPN_2_20230419T1203418_0230419T203541_0001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         GS_OFFL_SIR_IOPN_2_20230419T203408_0230419T203554_0001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         GS_OFFL_SIR_IOPN_2_2023	CS_OFFL_SIR_IOPN_2_20230419T112822_20230419T113054_C001	Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-	Total Geocentric Ocean Tide (solution 1: GOT and 2: FES) and the Non-
US_OFFL_SIR_JOPN_2_2023041911311047_202304191131166_C001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_JOPN_2_202304191140449_202304191140722_C001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_JOPN_2_202304191144952_202304191145054_C001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_JOPN_2_20230419116400_202304191145730_C001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_JOPN_2_20230419116255_202304191162916_C001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1)         CS_OFFL_SIR_JOPN_2_20230419116255_202304191162916_C001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1)         CS_OFFL_SIR_JOPN_2_202304191162932       C001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1)         CS_OFFL_SIR_JOPN_2_20230419116293418_202304191203541_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_JOPN_2_202304191203418_202304191203541_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_JOPN_2_202304191203418_202304191203541_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_JO	CS_OFFL_SIR_IOPN_2_20230419T113124_20230419T113247_C001		
CS_OFFL_SIR_IOPN_2_202304191140492_202304191140722_0001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T144952_20230419T145054_0001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPN_2_20230419T154400_20230419T154730_0001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T154730_0001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T15255_00230419T162916_0001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T162956_0001       Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T203418_20230419T203541_0001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T203418_20230419T203541_0001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T203418_20230419T203541_0001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T203418_20230419T203541_0001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T213253_002001<	CS_OFFL_SIR_IOPN_2_20230419T131047_20230419T131156_C001		
US_OFFL_SIR_IOPN_2_202304191144932_202304191144932_202304191144932_202304191154730_C001       Topography (1)       Topography (1)       Topography (1)       Topography (1)       Topography (1)       Topography (1)       Topography (2)	CS_OFFL_SIR_IOPN_2_20230419T140449_20230419T140722_C001		
US_OFFL_SIR_IOPN_2_20230419T164525_20230419T164736_001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T162525_20230419T162916_C001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T172569_20230419T172651_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T203418_20230419T203541_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T203418_20230419T204420_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T204107_20230419T204420_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T213223_20230419T213330_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T221352_20230419T221506_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T22352_20230419T22352_0001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T235442_20230419T235719_C001       Mean Sea Surface (1), Mean Dynamic       Topography height (solution 1) and the Mean D	CS_OFFL_SIR_IOPN_2_20230419T144952_20230419T145054_C001		
CS_OFFL_SIR_IOPN_2_20230419T172509_20230419T172651_C001Mean Dynamic Topography (1)Topography height (solution 1)CS_OFFL_SIR_IOPN_2_20230419T172509_20230419T172651_C001Mean Dynamic Topography (1)There is an error with the Mean Dynamic Topography height (solution 1) for one or more recordsCS_OFFL_SIR_IOPN_2_20230419T203418_20230419T203541_C001Mean Dynamic Topography (1)There is an error with the Mean Dynamic Topography height (solution 1) for one or more recordsCS_OFFL_SIR_IOPN_2_20230419T204107_20230419T204420_C001Mean Dynamic Topography (1)There is an error with the Mean Dynamic Topography height (solution 1) for one or more recordsCS_OFFL_SIR_IOPN_2_20230419T213223_20230419T213230_C001Mean Dynamic Topography (1)There is an error with the Mean Dynamic Topography height (solution 1) 	CS_OFFL_SIR_IOPN_2_20230419T154400_20230419T154730_C001		
CS_OFFL_SIR_IOPN_2_20230419172539_20230419172551_0001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_IOPN_2_20230419T203418_20230419T203541_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_IOPN_2_20230419T204107_20230419T204420_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_IOPN_2_20230419T213223_20230419T213330_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_IOPN_2_20230419T221352_20230419T2213506_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_IOPN_2_20230419T222066_20230419T222325_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20230419T235442_20230419T235719_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20230418T235549_20230419T00020_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution	CS_OFFL_SIR_IOPN_2_20230419T162525_20230419T162916_C001		
CS_OFFL_SIR_IOPN_2_202304191203416_20230419120341_20011       Wean Dynamic Topography (1)       for one or more records         CS_OFFL_SIR_IOPN_2_202304191204107_202304191204420_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_IOPN_2_202304191213223_202304191213330_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_IOPN_2_202304191221352_202304191221506_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_IOPN_2_202304191222306_202304191222325_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_202304191235442_202304191235719_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_202304181235549_202304191000020_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_202304191000020_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_202304191000020_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_202304191000020_2020419100137_C001	CS_OFFL_SIR_IOPN_2_20230419T172509_20230419T172651_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_202304191204107_202304191204420_c001       Mean Dynamic Topography (1)       for one or more records         CS_OFFL_SIR_IOPN_2_20230419T213223_20230419T213330_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_IOPN_2_20230419T221352_20230419T221506_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_IOPN_2_20230419T222006_20230419T222325_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20230419T2255442_20230419T225719_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20230419T235549_20230419T000020_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20230419T000020_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20230419T000020_20230419T000137_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPN_2_20230419T203418_20230419T203541_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_202304191213223_20230419121333_0_C001       Mean Dynamic Topography (1)       for one or more records         CS_OFFL_SIR_IOPN_2_202304191221352_202304191221356_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_IOPN_2_202304191222006_202304191222325_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_202304191235442_202304191235719_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_202304181235549_20230419100020_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_202304181235549_202304191000020_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_202304191000020_202304191000137_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20230419100020_202304191000137_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) <td>CS_OFFL_SIR_IOPN_2_20230419T204107_20230419T204420_C001</td> <td>Mean Dynamic Topography (1)</td> <td></td>	CS_OFFL_SIR_IOPN_2_20230419T204107_20230419T204420_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_202304191221352_202304191221306_C001       Invean Dynamic Topography (1)       for one or more records         CS_OFFL_SIR_IOPN_2_202304191222006_202304191222325_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_202304191235442_202304191235719_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_202304181235549_20230419T000020_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20230418T235549_20230419T000020_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20230419T000020_20230419T000137_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPR_2_20230419T013353_20230419T013355_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_IOPN_2_20230419T213223_20230419T213330_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_202304191222006_20230419122235_C001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_2023041912235442_2023041912235719_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20230418T235549_20230419T000020_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20230418T00020_20230419T000137_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20230419T000020_20230419T000137_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20230419T013353_20230419T013355_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_IOPN_2_20230419T221352_20230419T221506_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPR_2_202304191235442_202304191235719_0001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_202304191235549_20230419100020_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20230419100020_202304191000137_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_202304191000137_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_20230419100137_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_202304191013353_202304191013355_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_IOPN_2_20230419T222006_20230419T222325_C001		
CS_OFFL_SIR_IOPR_2_202304101235349_202304191000020_C001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPR_2_202304191000020_202304191000137_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPR_2_202304191000020_202304191000137_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1)         CS_OFFL_SIR_IOPR_2_202304191013353_202304191013855_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1)	CS_OFFL_SIR_IOPN_2_20230419T235442_20230419T235719_C001		
CS_OFFL_SIR_IOPR_2_202304191000020_202304191000137_C001 Topography (1) Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_IOPR_2_20230418T235549_20230419T000020_C001		
	CS_OFFL_SIR_IOPR_2_20230419T000020_20230419T000137_C001		
	CS_OFFL_SIR_IOPR_2_20230419T013353_20230419T013855_C001		

CS_OFFL_SIR_IOPR_2_20230419T013855_20230419T014024_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20230419T031529_20230419T031952_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20230419T045511_20230419T045918_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20230419T062935_20230419T063959_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20230419T080204_20230419T080306_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230419T081313_20230419T082101_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20230419T095306_20230419T100358_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20230419T113247_20230419T113659_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20230419T131157_20230419T131719_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20230419T140722_20230419T140938_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230419T145054_20230419T145755_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20230419T151211_20230419T151758_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230419T162917_20230419T163423_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20230419T180620_20230419T181455_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20230419T194531_20230419T195305_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20230419T195639_20230419T195843_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230419T200223_20230419T200409_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230419T212036_20230419T213057_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20230419T213057_20230419T213223_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20230419T230308_20230419T230956_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPR_2_20230419T230956_20230419T231543_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

## 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20 Hz measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 0

## 5.6 L2 Measurement Quality Flag Check

## L2 Quality Flags (20 Hz)

CryoSat L2 data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

> Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags: These flags are currently set for some records over ocean.

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> OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

Product CS OFFL SIR IOPM 2 20230419T000621 20230419T002545 C001	Test Failed Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	Description The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH	set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPM_2_20230419T002548_20230419T003820_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T004748_20230419T004943_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T005138_20230419T005447_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T005632_20230419T011208_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T011411_20230419T012434_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T014140_20230419T014345_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T014627_20230419T014834_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T015043_20230419T020251_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T021916_20230419T022014_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T022620_20230419T022904_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T022920_20230419T023349_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T023556_20230419T025035_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T025215_20230419T025458_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T032912_20230419T033457_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T033741_20230419T034004_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T034008_20230419T040144_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T040418_20230419T041256_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T041524_20230419T044024_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T051255_20230419T054029_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T054346_20230419T054517_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T054633_20230419T055052_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T055424_20230419T061909_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_IOPM_2_20230419T061911_20230419T061928_C001 OCOG Altim Backscatter	eter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T062003_20230419T062024_C001 OCOG Altim Backscatter	eter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T064733_20230419T071949_C001 and Backsca	eter Range, SSHA, SWH ttter Quality, OCOG nge and Backscatter Quality set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T072546_20230419T073133_C001 OCOG Altim Backscatter	eter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T073301_20230419T073915_C001 and Backsca	ter Range, SSHA, SWH Itter Quality, OCOG nge and Backscatter Quality to rone or more records
CS_OFFL_SIR_IOPM_2_20230419T074333_20230419T074959_C001 OCOG Altim Backscatter	eter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T082427_20230419T085844_C001 and Backsca	tter Range, SSHA, SWH tter Quality, OCOG nge and Backscatter Quality the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T090453_20230419T091005_C001 OCOG Altim Backscatter	eter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T091203_20230419T091453_C001 and Backsca	eter Range, SSHA, SWH ttter Quality, OCOG nge and Backscatter Quality set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T091518_20230419T093112_C001 and Backsca	eter Range, SSHA, SWH tter Quality, OCOG nge and Backscatter Quality set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T093307_20230419T094025_C001 and Backsca	eter Range, SSHA, SWH tter Quality, OCOG nge and Backscatter Quality set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T100358_20230419T101302_C001 and Backsca	eter Range, SSHA, SWH tter Quality, OCOG nge and Backscatter Quality set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T101445_20230419T103140_C001 and Backsca	eter Range, SSHA, SWH tter Quality, OCOG nge and Backscatter Quality set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T103150_20230419T103720_C001 and Backsca	tter Range, SSHA, SWH tter Quality, OCOG nge and Backscatter Quality ter Quality, OCOG set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T104310_20230419T104453_C001	eter Range Quality, OCOG Quality Coco Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T104500_20230419T104912_C001 OCOG Altim Backscatter	eter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T105125_20230419T111322_C001 and Backsca	eter Range, SSHA, SWH tter Quality, OCOG nge and Backscatter Quality set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T111356_20230419T112642_C001 and Backsca	eter Range, SSHA, SWH tter Quality, OCOG nge and Backscatter Quality set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T114438_20230419T115914_C001 and Backsca	eter Range, SSHA, SWH tter Quality, OCOG nge and Backscatter Quality set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T120207_20230419T120907_C001 and Backsca	tter Range, SSHA, SWH tter Quality, OCOG nge and Backscatter Quality ter Quality, OCOG set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T121028_20230419T121643_C001 and Backsca	tter Range, SSHA, SWH tter Quality, OCOG nge and Backscatter Quality ter Quality, OCOG set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T121830_20230419T122353_C001 OCOG Altim Backscatter	eter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T122412_20230419T122630_C001 OCOG Altim Backscatter	eter Range Quality, OCOG Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T123459_20230419T124725_C001 and Backsca	ter Range, SSHA, SWH Itter Quality, OCOG nge and Backscatter Quality to rone or more records
CS_OFFL_SIR_IOPM_2_20230419T124835_20230419T130521_C001 and Backsca	tere Range, SSHA, SWH Itter Quality, OCOG nge and Backscatter Quality Itter Quality, OCOG Itter Quality, OCOG Itter Corean Altimeter Range and Backscatter Quality Iter Corean
CS_OFFL_SIR_IOPM_2_20230419T131917_20230419T131947_C001 OCOG Altim Backscatter	eter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_IOPM_2_20230419T132812_20230419T133825_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T134029_20230419T135554_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T135757_20230419T140252_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T141140_20230419T141703_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T142914_20230419T144040_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T151950_20230419T153451_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T153730_20230419T154207_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T154823_20230419T161120_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T161122_20230419T161525_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T164901_20230419T170922_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T171014_20230419T171418_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T171737_20230419T172122_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T172144_20230419T172509_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T172740_20230419T175503_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T181924_20230419T185411_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T185545_20230419T190036_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T190732_20230419T194212_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T202726_20230419T202851_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T203051_20230419T203340_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T203541_20230419T204107_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T204659_20230419T210909_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T211155_20230419T212036_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T213355_20230419T213634_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T215310_20230419T221248_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T221506_20230419T222006_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T222604_20230419T225859_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

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CS_OFFL_SIR_IOPM_2_20230419T230244_20230419T230308_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPM_2_20230419T232449_20230419T234744_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T082102_20230419T082216_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T090138_20230419T090452_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T103140_20230419T103150_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T164411_20230419T164549_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T172509_20230419T172651_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T213223_20230419T213330_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T032526_20230419T032744_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T114142_20230419T114143_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T114147_20230419T114340_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T121014_20230419T121028_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T132334_20230419T132346_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T144444_20230419T144529_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T194330_20230419T194333_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T200515_20230419T200724_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T213833_20230419T214018_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T214239_20230419T214430_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T234744_20230419T235056_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

## L2 Quality Flags (20 Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

> Ocean Altimeter Range, SSHA, SWH and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over sea ice.

> OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

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Product	Test Failed	Description
	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T005447_20230419T005612_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_IOPN_2_20230419T012434_20230419T012726_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T014345_20230419T014627_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T022014_20230419T022620_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T031952_20230419T032209_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T032257_20230419T032525_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T032744_20230419T032906_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T040234_20230419T040417_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T045919_20230419T050403_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T050453_20230419T050615_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T051106_20230419T051216_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T054213_20230419T054346_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T054517_20230419T054633_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T072157_20230419T072546_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T074959_20230419T075155_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T075651_20230419T075756_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T080306_20230419T080337_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T080737_20230419T080859_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T082102_20230419T082216_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T090138_20230419T090452_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T091005_20230419T091123_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T093113_20230419T093306_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T121705_20230419T121829_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T130526_20230419T130947_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T131047_20230419T131156_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T135614_20230419T135757_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T142359_20230419T142853_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_IOPN_2_20230419T144150_20230419T144313_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T144624_20230419T144952_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T162525_20230419T162916_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T164648_20230419T164900_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T172509_20230419T172651_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T194213_20230419T194330_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T194500_20230419T194530_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T201605_20230419T201655_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T204107_20230419T204420_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T213634_20230419T213833_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T214036_20230419T214059_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T221352_20230419T221506_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T222006_20230419T222325_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPN_2_20230419T235442_20230419T235719_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T003821_20230419T004513_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T013353_20230419T013855_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T014834_20230419T015042_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T020251_20230419T020503_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T025036_20230419T025215_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T025458_20230419T025754_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T025759_20230419T025809_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T031529_20230419T031952_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T032526_20230419T032744_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T044446_20230419T044521_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T045112_20230419T045114_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T045511_20230419T045918_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPR_2_20230419T062935_20230419T063959_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T071950_20230419T072157_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T075830_20230419T080107_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T080109_20230419T080112_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T081313_20230419T082101_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T082216_20230419T082228_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T094026_20230419T094219_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T094331_20230419T094349_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T094407_20230419T094442_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T095009_20230419T095236_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T095306_20230419T100358_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T112740_20230419T112822_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T113659_20230419T114022_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
CS_OFFL_SIR_IOPR_2_20230419T114147_20230419T114340_C001	OCOG Backscatter Quality	more records
CS_OFFL_SIR_IOPR_2_202304191114147_202304191114340_C001 CS_OFFL_SIR_IOPR_2_20230419T115914_20230419T120206_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20230419T115914_20230419T120206_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20230419T115914_20230419T120206_C001 CS_OFFL_SIR_IOPR_2_20230419T124726_20230419T124835_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20230419T115914_20230419T120206_C001 CS_OFFL_SIR_IOPR_2_20230419T124726_20230419T124835_C001 CS_OFFL_SIR_IOPR_2_20230419T131157_20230419T131719_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPR_2_20230419T115914_20230419T120206_C001 CS_OFFL_SIR_IOPR_2_20230419T124726_20230419T124835_C001 CS_OFFL_SIR_IOPR_2_20230419T131157_20230419T131719_C001 CS_OFFL_SIR_IOPR_2_20230419T140722_20230419T140938_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         OCOG Altimeter Range Quality PLRM,	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T115914_20230419T120206_C001 CS_OFFL_SIR_IOPR_2_20230419T124726_20230419T124835_C001 CS_OFFL_SIR_IOPR_2_20230419T131157_20230419T131719_C001 CS_OFFL_SIR_IOPR_2_20230419T140722_20230419T140938_C001 CS_OFFL_SIR_IOPR_2_20230419T144041_20230419T144125_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM,         OCOG Altimeter Range Quality PLRM,	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T115914_20230419T120206_C001 CS_OFFL_SIR_IOPR_2_20230419T124726_20230419T124835_C001 CS_OFFL_SIR_IOPR_2_20230419T131157_20230419T131719_C001 CS_OFFL_SIR_IOPR_2_20230419T140722_20230419T140938_C001 CS_OFFL_SIR_IOPR_2_20230419T144041_20230419T144125_C001 CS_OFFL_SIR_IOPR_2_20230419T144444_20230419T144529_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T115914_20230419T120206_C001 CS_OFFL_SIR_IOPR_2_20230419T124726_20230419T124835_C001 CS_OFFL_SIR_IOPR_2_20230419T131157_20230419T131719_C001 CS_OFFL_SIR_IOPR_2_20230419T140722_20230419T140938_C001 CS_OFFL_SIR_IOPR_2_20230419T144041_20230419T144125_C001 CS_OFFL_SIR_IOPR_2_20230419T144041_20230419T144529_C001 CS_OFFL_SIR_IOPR_2_20230419T144444_20230419T144529_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality         Ocean Altimeter Range Quality PLRM, OCOG Backscatter Quality         Ocean Altimeter Range Quality PLRM, OCOG Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality         Ocean Altimeter Range and Backscatter Quality         Ocean Altimeter Range and Backscatter Quality         Ocean Altimeter Range and Backscatter Quality         PLRM         Ocean Altimeter Range and Backscatter Quality         Ocean Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T115914_20230419T120206_C001         CS_OFFL_SIR_IOPR_2_20230419T124726_20230419T124835_C001         CS_OFFL_SIR_IOPR_2_20230419T131157_20230419T131719_C001         CS_OFFL_SIR_IOPR_2_20230419T131157_20230419T131719_C001         CS_OFFL_SIR_IOPR_2_20230419T140722_20230419T140938_C001         CS_OFFL_SIR_IOPR_2_20230419T144041_20230419T1440938_C001         CS_OFFL_SIR_IOPR_2_20230419T144041_20230419T144125_C001         CS_OFFL_SIR_IOPR_2_20230419T144044_20230419T144529_C001         CS_OFFL_SIR_IOPR_2_20230419T145054_20230419T145755_C001         CS_OFFL_SIR_IOPR_2_20230419T151150_20230419T151210_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality         OCOG Altimeter Range, SSHA, SWH and Backscatter Quality         OCOG Altimeter Range, SSHA, SWH and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         Ocean Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range Quality PLRM, OCOG Backscatter Quality         Ocean Altimeter Range Quality PLRM, OCOG Backscatter Quality         Ocean Altimeter Range Quality PLRM,         Ocean Altimeter Range Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T115914_20230419T120206_C001         CS_OFFL_SIR_IOPR_2_20230419T124726_20230419T124835_C001         CS_OFFL_SIR_IOPR_2_20230419T131157_20230419T131719_C001         CS_OFFL_SIR_IOPR_2_20230419T131157_20230419T131719_C001         CS_OFFL_SIR_IOPR_2_20230419T140722_20230419T140938_C001         CS_OFFL_SIR_IOPR_2_20230419T144041_20230419T1440938_C001         CS_OFFL_SIR_IOPR_2_20230419T144041_20230419T144125_C001         CS_OFFL_SIR_IOPR_2_20230419T144044_20230419T144529_C001         CS_OFFL_SIR_IOPR_2_20230419T145054_20230419T145755_C001         CS_OFFL_SIR_IOPR_2_20230419T151150_20230419T151210_C001         CS_OFFL_SIR_IOPR_2_20230419T151211_20230419T151758_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality         OCOG Altimeter Range, SSHA, SWH and Backscatter Quality         OCOG Altimeter Range, SSHA, SWH and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         Ocean Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range Quality PLRM, OCOG Backscatter Quality         Ocean Altimeter Range Quality PLRM, OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T115914_20230419T120206_C001         CS_OFFL_SIR_IOPR_2_20230419T124726_20230419T124835_C001         CS_OFFL_SIR_IOPR_2_20230419T131157_20230419T131719_C001         CS_OFFL_SIR_IOPR_2_20230419T140722_20230419T131719_C001         CS_OFFL_SIR_IOPR_2_20230419T140722_20230419T140938_C001         CS_OFFL_SIR_IOPR_2_20230419T144041_20230419T144125_C001         CS_OFFL_SIR_IOPR_2_20230419T144041_20230419T144529_C001         CS_OFFL_SIR_IOPR_2_20230419T145054_20230419T145755_C001         CS_OFFL_SIR_IOPR_2_20230419T151150_20230419T151210_C001         CS_OFFL_SIR_IOPR_2_20230419T15120_20030419T151240_C001         CS_OFFL_SIR_IOPR_2_20230419T151211_20230419T151758_C001         CS_OFFL_SIR_IOPR_2_20230419T151240_20230419T151949_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM         OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         OCOG Altimeter Range, SSHA, SWH and Backscatter Quality         Ocean Altimeter Range and Backscatter Quality PLRM         Ocean Altimeter Range Quality PLRM, OCOG Backscatter Quality         Ocean Altimeter Range Quality PLRM, OCOG Backscatter Quality         OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records The OCOG Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_IOPR_2_20230419T163502_20230419T163704_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T175555_20230419T175644_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records
CS_OFFL_SIR_IOPR_2_20230419T180620_20230419T181455_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T181517_20230419T181750_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T190555_20230419T190731_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T194531_20230419T195305_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T195309_20230419T195532_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T195639_20230419T195843_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T204421_20230419T204659_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T212036_20230419T213057_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T213057_20230419T213223_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T213833_20230419T214018_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T222326_20230419T222604_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T225946_20230419T230024_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_IOPR_2_20230419T230026_20230419T230147_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one on more records
CS_OFFL_SIR_IOPR_2_20230419T230308_20230419T230956_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records
	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags

0

> 1 Hz and 1 Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected. The number of products with this error flag set is given below. Number of products with errors: 207

### 5.8 L2 Ocean Retracking Quality Check

## L2 Retracking Flags (20 Hz)

CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz measurement record. The bit value of this flag indicates any problems when set. > Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 66 L2 Retracking Flags (20 Hz PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz PLRM measurement record. The bit value of this flag indicates any problems when set. > Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 154 6. IOP L2 Pole-to-Pole Data Quality Check 6.1 P2P Product Format Check Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).

#### \_\_\_\_\_

## 6.3 P2P Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

#### 6.4 P2P Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

0

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this check.

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products are not reported in the table below.

> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.

> Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.

29

> Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.

> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220230418T235926_20230419T004904_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220230419T004904_20230419T013841_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220230419T013841_20230419T022819_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220230419T022819_20230419T031756_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220230419T031756_20230419T040733_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220230419T040733_20230419T045710_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230419T045710_20230419T054648_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230419T054648_20230419T063625_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230419T063625_20230419T072603_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230419T072603_20230419T081540_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220230419T081540_20230419T090518_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230419T090518_20230419T095454_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220230419T095454_20230419T104432_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230419T104432_20230419T113409_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220230419T113409_20230419T122347_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230419T122347_20230419T131324_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220230419T131324_20230419T140301_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220230419T140301_20230419T145238_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220230419T145238_20230419T154216_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220230419T154216_20230419T163153_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230419T163153_20230419T172131_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230419T172131_20230419T181108_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20230419T181108_20230419T190046_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_220230419T190046_20230419T195022_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOP_2	_20230419T195022	2_20230419T204000_	C001	Mean Sea Surfa Topography (1)	ace (1), Mean Dynami	c There is an error with the MSS Topography height (solution 1	S height (solution 1) and the Mean Dynamic )
CS_OFFL_SIR_IOP_2	_20230419T204000	0_20230419T212937_	C001	Mean Sea Surfa Topography (1)	ace (1), Mean Dynami	c There is an error with the MSS Topography height (solution 1	S height (solution 1) and the Mean Dynamic )
CS_OFFL_SIR_IOP_2	_20230419T212937	7_20230419T221915_	C001	Mean Sea Surfa Topography (1)	ace (1), Mean Dynami	c There is an error with the MSS Topography height (solution 1	S height (solution 1) and the Mean Dynamic )
CS_OFFL_SIR_IOP_2	_20230419T221915	5_20230419T230852_	C001	Mean Sea Surfa Topography (1)	ace (1), Mean Dynami	c There is an error with the MSS Topography height (solution 1	S height (solution 1) and the Mean Dynamic )
CS_OFFL_SIR_IOP_2	_20230419T230852	2_20230419T235829_	C002	Mean Sea Surfa Topography (1)	ace (1), Mean Dynami	c There is an error with the MSS Topography height (solution 1	S height (solution 1) and the Mean Dynamic )
6.5 P2P Measur	ement Confid	ence Data Che	ck				
CrvoSat P2P data inclu	des a measurement	confidence flag for ea	ch 20-Hz measur	ement record. Th	e bit value of this flao	indicates any problems when set.	
•		0					
Number of products w	ith errors:	U					
6.6 P2P Measur	ement Quality	/ Flag Check					
P2P Quality Flags	s (20 Hz)						
		r each 20 Hz, 20 Hz Pl	BM and 1 Hz me	easurement reco	rd, copied from the co	rresponding L2 products.	
					•		r of P2P products affected is given
below.	riags are copied o		uanty riags, pie	ase see Section		of products affected. The number	Tor F2F products anected is given
Number of products w	ith errors:	29					
P2P Quality Flags Since the P2P Quality below.	•	lirectly from the L2 Q	uality Flags, ple	ase see Sectior	5.6 for the full list o	of products affected. The numbe	er of P2P products affected is given
Number of products w	ith errors:	29					
P2P Quality Flags	•						
Since the P2P Quality below.	Flags are copied d	lirectly from the L2 Q	uality Flags, ple	ase see Sectior	5.6 for the number	of L2 products affected. The nu	mber of P2P products affected is given
Number of products w	ith errors:	29					
6.8 P2P Ocean	Retracking Or	ality Check					
	Ť						
P2P Retracking F	lags (20 Hz)						
						this flag indicates any problems w	rhen set.
> Ocean Retracking Q	uality Flag (PLRM)	: This flag is currently	set for products I	OPR and IOPN p	roducts over sea ice,	but this is to be expected.	
Number of products w	ith errors:	26					
P2P Retracking F	lags PLRM						
CryoSat L2 data include	es an ocean retrackir	ng quality flag for each	20 Hz PLRM me	asurement recor	d. The bit value of this	s flag indicates any problems when	ı set.
> Ocean Retracking Q	uality Flag (PLRM)	: This flag is currently	set for products I	OPR and IOPN p	roducts over sea ice,	but this is to be expected.	
Number of products w	ith errors:	29					
			7. IC	P QCC R	eport Analys	is	
The Quality Control for warnings is provided be	• • •	ty performs a primary s	survey of data pro	ducts immediate	ly after production by	the PDS and LTA processing facil	ities. A list of the tests which raised errors or
Product type SIR_IOPM1B		167		67	No. Valio 6	No. Warnin	gs No. Errors
SIR_IOPR1B		150	1	02	1	101	0
SIR_IOPN1B SIR IOPM 2		102 167		50 67	1 110	149 57	0
SIR_IOPR_2		150		02	38	64	o o
SIR_IOPN_2 SIR_IOP_P2P		102 29		50 29	60 0	89 27	1 2
7.1 QCC Errors							
Number of QCC repor	ts with errors:	11					
				1	of occurrences of	each error	
Product Type RLOBO	1 1	RL 1	RLOBOPNCDF 1	<b>RL</b> 1	1 RL		· · ·
Product Type RLOBC SIR_IOP_2_	2 2	RLOBOPNCDF 2	<b>RL</b> 2	-	-	· ·	· · ·
Test Description Key:							
Abbreviation	Test name		Details				
RLOBOPNCDF	RangeLatitudeOrBlan	nkOP_7NetCDF		between -90E7 ar			
RL     RangeLatitude_6     Latitude should be between -90E6 and 90E6       RL     RangeLatitude_7     Latitude should be between -90E7 and 90E7							
RLOBOPNCDF	RLOBOPNCDF RangeLongitudeOrBlankOP_7NetCDF Longitude should be between -180E7 and 180E7						
RL RL							
RL RangeLongitude_7 Longitude should be between -180E7 and 180E7							

# 7.2 QCC Warnings

 Product Type
 BCSHNCDF
 IOHMOOR
 MVIOEPFDNCDF
 MVIOEPFDNCDF
 MVIOCPF
 RBSZOPOEPFDNCDF
 RBSZOPOEPFDNCDF
 RBSZOPOEPFDNCDF
 RBSZOPOEPFDNCDF
 RBSZOPOEPFDNCDF
 RBSZOPOEPFDNCDF
 RBSZOPOEPFDNCDF
 RD

 SIR\_IOPM1B
 161
 0
 0
 0
 0
 0
 0
 0

	0	0	44	42	0	44	0
SIR_IOPM_2	0 98	0	44	42	0	44	0
SIR_IOPN1B		0	0	0	°	0	0
SIR_IOPN_2	0	0	15	31	5	30	31
SIR_IOPR1B	143	0	0	0	0	0	0
SIR_IOPR_2	0	1	31	48	0	28	26
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF				RPEPOPFDSINNCDF
SIR IOPM1B	0	0	0			0	0
SIR_IOPM_2	35	0	35	0	0	0	0
SIR IOPN1B	0	0	35	0	0	0	0
	23	1	0	0	20	0	31
SIR_IOPN_2	0	1	0	0		-	* :
SIR_IOPR1B		0	0	0	0	0	0
SIR_IOPR_2	13	1	0	51	0	59	0
Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR IOPM1B	0	0	0	0	0	0	0
SIR IOPM 2	31	0	0	3	28	0	7
SIR IOPN1B	0	0	0	0	0	0	0
SIR IOPN 2	0	0	25	14	42	56	31
SIR IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	0	46	0	5	70	34	8
	-				1		
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNC		SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF
			CDF RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD 0	SCSTODHRNCDF
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNC	DF RSWHOEPNCDF	SPHRTASCNSNCDF 1 1	SPHRTASCNSNCDF 1 1		
Product Type SIR_IOPM1B	RSWHOEPFDNCDF	RSWHOEPFDPLRMNC	CDF RSWHOEPNCDF	SPHRTASCNSNCDF 1 1 0	SPHRTASCNSNCDF 1 1 0	0	0
Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B	RSWHOEPFDNCDF 0 38	RSWHOEPFDPLRMNC	CDF RSWHOEPNCDF 0 4 0 11	SPHRTASCNSNCDF 1 1 0 0 0	SPHRTASCNSNCDF 1 1 0 0 0	0 0	0
Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPN_2	RSWHOEPFDNCDF           0           38           0	RSWHOEPFDPLRMNC 0 0 0	0 4 0	SPHRTASCNSNCDF           1           1           0           0           0           0	1 1 0	0 0 0 0 0	0 0 49
Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B	RSWHOEPFDNCDF           0           38           0           28	RSWHOEPFDPLRMNC           0           0           0           27	0 4 0	SPHRTASCNSNCDF 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0	0 0 0 0	0 0 49 0
Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPN_2 SIR_IOPR1B	RSWHOEPFDNCDF           0           38           0           28           0	RSWHOEPFDPLRMNC           0           0           0           27           0	0 4 0 11 0	SPHRTASCNSNCDF 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0	0 0 0 0 0	0 0 49 0 149
Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPN_2 SIR_IOPR1B	RSWHOEPFDNCDF           0           38           0           28           0           41	RSWHOEPFDPLRMNC           0           0           0           27           0           49           MVIOEPFDNCDF	0 4 0 11 0 3 <b>MVIOEPNCDF</b>	SPHRTASCNSNCDF 1 1 0 0 0 0 0 0 MVIONCDF	1 1 0 0 2 RBSZOPOEPFDNCDF	0 0 0 0 0	0 0 49 0 149 0
Product Type SIR_IOPM1B SIR_IOPM2 SIR_IOPN1B SIR_IOPN2 SIR_IOPR1B SIR_IOPR2	RSWHOEPFDNCDF           0           38           0           28           0           41	RSWHOEPFDPLRMNC           0           0           0           27           0           49	0 4 0 11 0 3	1 1 0 0 0 0	1 1 0 0 0 2	0 0 0 0 0 4	0 0 49 0 149 0
Product Type           SIR_IOPM1B           SIR_IOPM2           SIR_IOPN1B           SIR_IOPN1B           SIR_IOPN2           SIR_IOPR1B           SIR_IOPR2           Product Type           SIR_IOP_2_	RSWHOEPFDNCDF           0           38           0           28           0           41           IOHHMOOR           18	RSWHOEPFDPLRMNC           0           0           0           27           0           49           MVIOEPFDNCDF           29	0 4 0 11 0 3 MVIOEPNCDF 29	1 1 0 0 0 0 0 <b>MVIONCDF</b> 4	1           1           0           0           2           RBSZOPOEPFDNCDF           29	0 0 0 0 0 4 4 <b>BBSZOPOEPFDPLRMNC</b> 17	0 0 49 0 149 0 149 0 <b>CRBSZOPOEPNCDF</b> 29
Product Type           SIR_IOPM1B           SIR_IOPM_2           SIR_IOPN1B           SIR_IOPN1B           SIR_IOPR1B           SIR_IOPR1B           SIR_IOPR2           Product Type           SIR_IOP_2_           Product Type           Product Type	RSWHOEPFDNCDF           0           38           0           28           0           41           IOHHMOOR           18           RNELPOTONCDF	RSWHOEPFDPLRMNC           0           0           0           0           27           0           49           MVIOEPFDNCDF           29           RPEPOPFDPLRMSINN	0 4 0 11 0 3 <b>MVIOEPNCDF</b> 29 <b>ICD[RPEPOPFDSINNCDF</b>	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 2 RBSZOPOEPFDNCDF 29 RSSBCONCDF	0 0 0 0 4 <b>RBSZOPOEPFDPLRMNC</b> 17 <b>RSSHAOFDNCDF</b>	0 0 49 0 149 0 2 <b>RBSZOPOEPNCDF</b> 29 <b>RSSHAOFDPLRMNC</b>
Product Type           SIR_IOPM1B           SIR_IOPM2           SIR_IOPN1B           SIR_IOPN1B           SIR_IOPN2           SIR_IOPR1B           SIR_IOPR2           Product Type           SIR_IOP_2_	RSWHOEPFDNCDF           0           38           0           28           0           41           IOHHMOOR           18	RSWHOEPFDPLRMNC           0           0           0           27           0           49           MVIOEPFDNCDF           29	0 4 0 11 0 3 MVIOEPNCDF 29	1 1 0 0 0 0 0 <b>MVIONCDF</b> 4	1           1           0           0           2           RBSZOPOEPFDNCDF           29	0 0 0 0 0 4 4 <b>BBSZOPOEPFDPLRMNC</b> 17	0 0 49 0 149 0 149 0 <b>CRBSZOPOEPNCDF</b> 29
Product Type           SIR_IOPM1B           SIR_IOPM2           SIR_IOPN1B           SIR_IOPN1B           SIR_IOPN2           SIR_IOPR1B           SIR_IOPR2           Product Type           SIR_IOP_2_           Product Type           SIR_IOP_2_	RSWHOEPFDNCDF           0           38           0           28           0           41           IOHHMOOR           18           RNELPOTONCDF           2	RSWHOEPFDPLRMNC           0           0           27           0           27           0           29           RPEPOPFDPLRMSINN           15	0 4 0 11 0 3 3 <b>MVIOEPNCDF</b> 29 <b>ICDI RPEPOPFDSINNCDF</b> 28	1 1 0 0 0 MVIONCDF 4 RPEPOPSINNCDF 21	1           1           0           0           2           RBSZOPOEPFDNCDF           29           RSSBCONCDF           14	0 0 0 0 4 <b>RBSZOPOEPFDPLRMNC</b> 17 <b>RSSHAOFDNCDF</b>	0 0 49 0 149 0 2 <b>RBSZOPOEPNCDF</b> 29 <b>RSSHAOFDPLRMNC</b>
Product Type           SIR_IOPM1B           SIR_IOPM1B           SIR_IOPM2           SIR_IOPN1B           SIR_IOPN2           SIR_IOPR1B           SIR_IOPR2           Product Type           SIR_IOP_2_           Product Type           SIR_IOP_2_           Product Type           SIR_IOP_2_	Image: Notest and the second	RSWHOEPFDPLRMNC           0           0           0           27           0           49           MVIOEPFDNCDF           29           RSWHOEPFDNCDF           15           RSWHOEPFDNCDF	0 4 0 11 0 3 3 <b>MVIOEPNCDF</b> 29 <b>ICD</b> (RPEPOPFDSINNCDF 28 <b>RSWHOEPFDPLRMNCDF</b>	1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1           1           0           0           0           2           RBSZOPOEPFDNCDF           29           RSSBCONCDF           14           SPHLPQWNCDF	0 0 0 0 4 <b>RBSZOPOEPFDPLRMNC</b> 17 <b>RSSHAOFDNCDF</b>	0 0 49 0 149 0 2 <b>RBSZOPOEPNCDF</b> 29 <b>RSSHAOFDPLRMNC</b>
Product Type           SIR_IOPM1B           SIR_IOPM2           SIR_IOPN1B           SIR_IOPN2           SIR_IOPR1B           SIR_IOPR2           Product Type           SIR_IOP_2_           Product Type           SIR_IOP_2_	RSWHOEPFDNCDF           0           38           0           28           0           41           IOHHMOOR           18           RNELPOTONCDF           2	RSWHOEPFDPLRMNC           0           0           27           0           27           0           29           RPEPOPFDPLRMSINN           15	0 4 0 11 0 3 3 <b>MVIOEPNCDF</b> 29 <b>ICDI RPEPOPFDSINNCDF</b> 28	1 1 0 0 0 MVIONCDF 4 RPEPOPSINNCDF 21	1           1           0           0           2           RBSZOPOEPFDNCDF           29           RSSBCONCDF           14	0 0 0 0 4 <b>RBSZOPOEPFDPLRMNC</b> 17 <b>RSSHAOFDNCDF</b>	0 0 49 0 149 0 2 <b>RBSZOPOEPNCDF</b> 29 <b>RSSHAOFDPLRMNC</b>
Product Type           SIR_IOPM1B           SIR_IOPM1B           SIR_IOPM2           SIR_IOPN1B           SIR_IOPN2           SIR_IOPR1B           SIR_IOPR2           Product Type           SIR_IOP_2_           Product Type           SIR_IOP_2_           Product Type           SIR_IOP_2_	Image: Notest and the second	RSWHOEPFDPLRMNC           0           0           0           27           0           49           MVIOEPFDNCDF           29           RSWHOEPFDNCDF           15           RSWHOEPFDNCDF	0 4 0 11 0 3 3 <b>MVIOEPNCDF</b> 29 <b>ICD</b> (RPEPOPFDSINNCDF 28 <b>RSWHOEPFDPLRMNCDF</b>	1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1           1           0           0           0           2           RBSZOPOEPFDNCDF           29           RSSBCONCDF           14           SPHLPQWNCDF	0 0 0 0 4 <b>RBSZOPOEPFDPLRMNC</b> 17 <b>RSSHAOFDNCDF</b>	0 0 49 0 149 0 2 <b>RBSZOPOEPNCDF</b> 29 <b>RSSHAOFDPLRMNC</b>

Test Description Key:					
Abbreviation	Test name	Details			
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter			
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)			
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only			
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean			
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean			
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)			
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch			
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample			
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter			

7.3 Missing QCC Reports